

IN THE CLAIMS:

Please cancel Claims 4-8 ✓

Please amend claims 1-3, 9, 10, and 12 to read as set forth below, and add new Claims 14 and 15. In this regard, all of the claims are presented, whether or not they have been changed, and a marked up version of the amended claims, showing the changes made thereto, is appended.

B 1. (Twice Amended) A solid-state image pickup device comprising a plurality of unit cells arranged in a two dimensional matrix and each having a photoelectric conversion portion which generates a signal, an amplifying means for amplifying the signal generated in the photoelectric conversion portion, a transfer means for transferring the signal to the amplifying means, a reset means for resetting an input terminal of the amplifying means, and a selecting means for selecting the amplifying means and outputting an amplified signal to a signal output line,

wherein one common line performs at least two different functions of a selection control line for controlling the selecting means, a transfer control line for controlling the transfer means, a reset control line for controlling the reset means, and a signal output line in a said unit cell, or between two unit cells operating in time series fashion, or between two adjoining unit cells, and

wherein and during operation of said selecting means, a noise signal and an optical signal including the noise signal are read out, in that order, from said signal output line, and the difference between said read out signals is determined.

2. (Twice Amended) A solid-state image pickup device comprising at

least one unit cell having a photoelectric conversion portion which generates a signal, an amplifying means for amplifying the signal generated in the photoelectric conversion portion, a transfer means for transferring the signal to the amplifying means, a reset means for resetting an input terminal of the amplifying means, and a selecting means for selecting the amplifying means and outputting an amplified signal to a signal output line,

wherein the signal output line and a line having at least one function of the three functions of a selection control line for controlling the selecting means, a transfer control line for controlling the transfer means, and a reset control line for controlling the reset means, comprise a single common line in a single unit cell or between two adjoining unit cells.

3. (Twice Amended) A solid-state image pickup device comprising at

least one unit cell having a photoelectric conversion portion which generates a signal, an amplifying means for amplifying the signal generated in the photoelectric conversion portion, a transfer means for transferring the signal to the amplifying means, a reset means for resetting an input terminal of the amplifying means, and a selecting means for selecting the amplifying means and outputting an amplified signal to a signal output line,

wherein one common line performs at least two different functions of a transfer control line for controlling the transfer means, a selection control line for controlling the selecting means, and reset control line for controlling the reset means, and a

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signal output line in a unit cell, or between two unit cells operating in time series fashion,
or between two adjoining unit cells, and

wherein each said unit cell comprises a plurality of protective
conversion portion connected to a common amplifying transistor.

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9. (Amended) The solid-state image pickup device according to
claim 2, wherein during a period in which the selecting means are turned on, a noise signal
and an optical signal are read out from the signal output line.

10. (Twice Amended) The solid-state image pickup device according to
claim 3, wherein the unit cells are arranged in a two-dimensional matrix.

11. The solid-state image pickup device according to claim 1, wherein
the unit cells are arranged in a two-dimensional matrix and a power line is disposed
between two adjoining unit cells.

12. (Twice Amended) An image pickup system comprising the solid-
state image pickup device according to any one of claims 1, an optical system for optically
forming an image onto the solid-state image pickup device, and a signal processing circuit
for processing an output signal from the solid-state image pickup device.

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13. The solid-state image pickup device according to claim 1, wherein the photoelectric conversion portion, the amplifying means, the transfer means, the reset means, and the selecting means are all elements of the same conductivity type.

Please add new Claims 14 and 15 as follows:

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--14. (New) The solid-state image pickup device according to claim 2, further comprising a second common line which functions as said selection control line and said transfer control line.

15. (New) The solid-state image pickup device according to claim 2, wherein each said unit cell comprises a plurality of photoelectric conversion portions connected to a common amplifying transistor.--
